# POLYLACTIC ACID COMPOSITION, ITS PRODUCTION AND MOLDED PRODUCT FROM THE COMPOSITION


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Inventor: HIRAI YOSHIAKI; HORIKAWA YUKIO; KIMURA YOSHIHARU

Applicant: KANEBO LTD



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- European:

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Abstract of **JP10176039**

PROBLEM TO BE SOLVED: To obtain a polyactic acid composition having high molecular weight and excellent heat stability with a small lowering of molecular weight in molding and capable of giving a molded product having high strength by containing a specific polylactic acid-based copolymer and tris(acetylacetonato) aluminum at a specific ratio. SOLUTION: This composition contains (A) a polylactic acid-based copolymer as a copolymer of (i) L- and/or D-lactic acid and (ii) a segment derived from at least one kind of compound selected from the group consisting of polyalkylene glycols, polyhydric alcohols, hydroxycarboxylic acids, aliphatic polyesters, lactones, lactams and cyclic carbonates [preferably a copolymer of the component (i) and polyethylene glycol] and (B) tris(acetylacetonato) aluminum in an amount of 0.075-2.0mol% based on a lactic acid unit of the component A. The component A is obtained by performing melt ring-opening polymerization of lactide as a cyclic dimer of lactic acid with the component (ii) by using the component B in an amount of 0.15-4.0mol% based on the lactide as a catalyst.

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